

a cone connected to the body, the cone having an outer periphery; and

a neck, connected to the cone of the funnel, having an electron gun disposed therein,

A' wherein the cone has a deflection power reducing shape formed in such a manner that the outer periphery of the cone has a predetermined curvature which is contiguous to the body, wherein the deflection power reducing shape is formed to have a length $0.25 \times L$ from an end of the cone at the neck, where L is an entire length of the cone from the neck to the body measured along an axis of symmetry of the cathode ray tube.

2. (Amended) The cathode ray tube as recited in claim 1, wherein the deflection power reducing shape is formed in such a manner that the outer periphery of the cone from the end of the cone at the neck to a length of $0.25 \times L$ from the end of the cone at the neck, as viewed in a cross section perpendicular to the axis of symmetry has a shape of an arc with a radius satisfying the following conditions:

$$|Cz| < 4.5\text{mm}$$

$$25\text{mm} < r1 < 5\text{mm}.$$

where Cz is a coordinate of a center for the arc in the axis of symmetry direction from the end of the cone at the neck; and

$r1$ is the radius of curvature of the arc.

3. (Amended) The cathode ray tube as recited in claim 1, wherein the deflection power reducing shape is formed in such a manner that the outer periphery of the cone from the end of the cone at the neck to a length of $0.25 \times L$ from the end of the cone at the neck, as viewed in a cross section perpendicular to the axis of symmetry has a curvature satisfying the following condition: